Inosine Triphosphate Pyrophosphatase (ITPA) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Inosine triphosphate pyrophosphatase (Itpa), Recombinant Protein
Full Product Name	Recombinant Mouse Inosine triphosphate pyrophosphatase (Itpa)
Product Gene Name	Itpa recombinant protein
Product Synonym Gene Name	Itpa
Sequence	AASLVGKKIV FVTGNAKKLE EVIQILGDNF PCTLEAQKID LPEYQGEPDE ISIQKCREAA RQVQGPVLVE DTCLCFNALG GLPGPYIKWF LQKLKPEGLH QLLAGFEDKS AYALCTFALS TGDPSQPVLL FRGQTSGQIV MPRGSRDFGW DPCFQPDGYE QTYAEMPKSE KNTISHRFRA LHKLQEYFSV AAGAGDH
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	21,897 Da
Sequence Positions	2-198, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9D892
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Itpa recombinant protein	This protein hydrolyzes inosine triphosphate and deoxyinosine triphosphate to the monophosphate nucleotide and diphosphate. The encoded protein, which is a member of the HAM1 NTPase protein family, is found in the cytoplasm and acts as a homodimer. Defects in the encoded protein can result in inosine triphosphate pyrophosphorylase deficiency. Two transcript variants encoding two different isoforms have been found for this gene. Also, at least two other transcript variants have been identified which are probably regulatory rather than protein-coding.
Other Notes	Small volumes of Itpa recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Itpa purchase	MBS1358265 is a recombinant protein targeting Itpa. Also known as Recombinant Mouse Inosine triphosphate pyrophosphatase (Itpa). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Itpa. It may not necessarily be applicable to this product.

NCBI GI #	31982664
NCBI GeneID	16434

NCBI Accession #	NP_080198.2
UniProt Primary Accession #	Q9D892
UniProt Secondary Accession #	Q8R0Q8
UniProt Related Accession #	Q9D892
GenBank Nucleotide #	NM_025922.2
NCBI Official Full Name	inosine triphosphate pyrophosphatase
NCBI Official Synonym Full Names	inosine triphosphatase (nucleoside triphosphate pyrophosphatase)
NCBI Official Symbol	Itpa
NCBI Official Synonym Symbols	Itp; AU020102; 2010016I08Rik
UniProt Protein Name	Inosine triphosphate pyrophosphatase
UniProt Synonym Protein Names	Non-canonical purine NTP pyrophosphatase
UniProt Gene Name	Itpa
UniProt Synonym Gene Names	ITPase; Inosine triphosphatase; NTPase
NCBI Protein Information	inosine triphosphate pyrophosphatase
UniProt Comments for Itpa	Pyrophosphatase that hydrolyzes the non-canonical purine nucleotides inosine triphosphate (ITP), deoxyinosine triphosphate (dITP) as well as 2'-deoxy-N-6-hydroxylaminopurine triposphate (dHAPTP) and xanthosine 5'-triphosphate (XTP) to their respective monophosphate derivatives. The enzyme does not distinguish between the deoxy- and ribose forms. Probably excludes non-canonical purines from RNA and DNA precursor pools, thus preventing their incorporation into RNA and DNA and avoiding chromosomal lesions.
Research Articles on Itpa	**1.** The role of ITPase in mice is to exclude ITP from the ATP pool, and the main target substrate of this enzyme is rITP
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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